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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

1940 DUKE STREET

ALEXANDRIA, VA 22314

7590

10/31/2008

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.

EXAMINER CAO, PHUONG THAO ART UNIT PAPER NUMBER

2164

DATE MAILED: 10/31/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,548	11/24/2003	Jonathan Richard Thorpe	282550US8X	4570

TITLE OF INVENTION: INFORMATION STORAGE AND RETRIEVAL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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			L			(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,548 TITLE OF INVENTION	11/24/2003 : INFORMATION STO	RAGE AND RETRIEVA	Jonathan Richard Thorpe L	,	282550US8X	4570
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/02/2009
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CAO, PHUC	ONG THAO	2164	707-003000	_		
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED OF			registered attorneys or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
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ALEXANDRIA, V	/A 22314		2164		
			DATE MAILED: 10/31/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 375 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 375 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/720,548	THORPE, JONATHAN RICHARD	
Notice of Allowability	Examiner	Art Unit	
	Phuong-Thao Cao	2164	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPLY of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to Amendment filed on the office of the office of the order to the order of th	(OR REMAINS) CLOSED ir or other appropriate commu IGHTS. This application is s and MPEP 1308.	n this application. If not include unication will be mailed in due	ed course. THIS
2. ☑ The allowed claim(s) is/are <u>1,2,4-8,10-13,17 and 18</u> .			
3. Acknowledgment is made of a claim for foreign priority unas All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminsformal patients.	be been received. be been received in Application cuments have been received of this communication to file IENT of this application. itted. Note the attached EXA are reason(s) why the oath of the second of the control of the cont	on No d in this national stage applica a reply complying with the rec	quirements
5. CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftspers	· ·	v (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet of the state of the sheet.	s Amendment / Comment or	ne drawings in the front (not the	back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Si Paper No./ 7. ☑ Examiner's	formal Patent Application ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allo	wance

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joseph Wrkich (Reg. No. 53,796) on 10/17/2008.

The application has been amended as follows:

Claim 7 has been amended by replacing "A method" in line 1 with "A computer implemented method".

REASONS FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

The present invention is directed to a system/method for searching a set of information items including video images and displaying results of the search using a self-organizing map, which includes a graphical user interface for displaying a set of information items as a n-

Art Unit: 2164

dimensional array of display points within the self-organizing map, a processor configured to train the self-organizing map using color histograms for each video image as a feature vector when applied to the self-organizing map to identify a plurality of output nodes, a user control for selecting a plurality of video images and specifying a combination of the plurality of selected video images, and a search processor configured to use color histograms of the selected video images to generate a user defined feature vector through a composite color histogram and apply the user defined feature vector to the input of the self-organizing map to identify information items which include video images having color histograms corresponding to that of the user defined selected video images.

The closest prior art of record, <u>Laaksonen et al.</u> ("Content-Based Image Retrieval Using Self-Organizing Maps", 1999) describes searching images using self-organizing map and using separate feature vectors including feature vector for describing the color (e.g., average color and color composition) of images to apply as input to the self-organizing map to retrieve images similar to a given set of reference images (see <u>Laaksonen et al.</u>, Abstract and pages 542-544).

However, <u>Laaksonen et al.</u> fails to anticipate or render obvious the recited features of "<u>a</u> user control configured to, in response to a user input, select a plurality of video images and to specify a combination of the plurality of selected video images" and "<u>a search processor configured to form a color histogram for each of the user selected video images, to generate a composite color histogram from the specified combination of each of the color histogram from each of the selected video images, to generate a user defined feature vector from the user</u>

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selected video images using the composite color histogram, and to search the set of information items by applying the user defined feature vector to the input of the self-organizing map to identify information items which include video images having color histograms corresponding to that of the user selected video images" as recited in independent claim 1 and similarly recited in independent claims 7 and 13.

These features, together with the other limitations of the independent claims are novel and non-obvious over the prior art of record. The dependent claims 2, 4-6, 8, 10-12, 17 and 18 being definite, enabled by the specification, and further limiting to the independent claim, are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

REMARKS

3. Examiner interpreted "computer readable storage medium" recited in claim 13 as storage device (e.g., removable disk) as disclosed in specification, page 7, lines 2-9.

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phuong-Thao Cao whose telephone number is (571)272-2735.

The examiner can normally be reached on 8:30 AM - 5:00 PM (Mon - Fri).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Charles Rones can be reached on (571) 272-4085. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phuong-Thao Cao, Examiner

Art Unit 2164

October 16, 2008

/Charles Rones/

Supervisory Patent Examiner, Art Unit 2164